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(71) Applicant (for all designated States except US): TELE-
FONAKTIEBOLAGET LM ERICSSON (publ)
[SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MALOMSOKY, Sz-
abolcs [HU/HU]; Szechenyi ter. 31, H-2000 Szentendse
(HU). SZABO, Istvan [HU/HU]; Gidofalvy utca 23. V/3,
H-1134 Budapest (HU).

(74) Agents: HAN, John, C. et al.; Ericsson Inc., 6300 Legacy,
MS EVW 2-C-2, Plano, TX 75024 (US).

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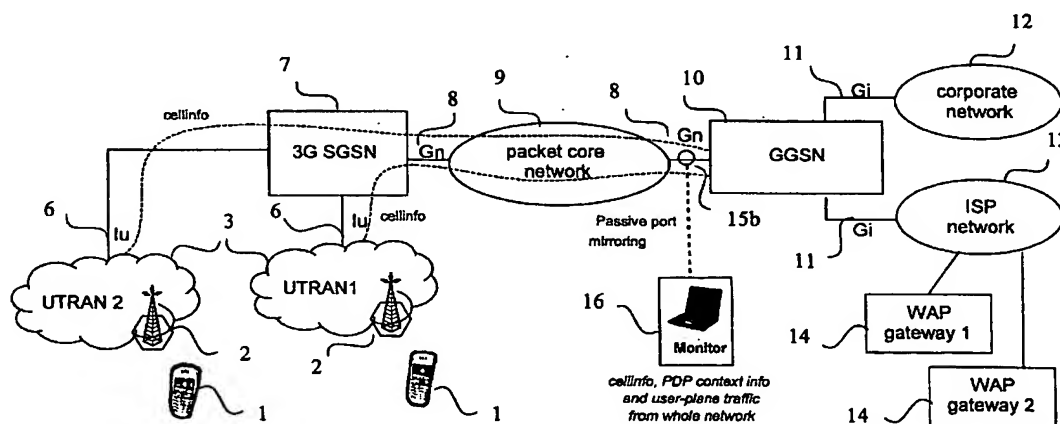
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(54) Title: LOCATION SIGNALING FOR LARGE-SCALE, END-TO-END, QUALITY-OF-SERVICE MONITORING OF MO-
BILE TELECOMMUNICATION NETWORKS



(57) Abstract: A method, network, and device for measuring and analyzing packet-switched traffic in a packet-switched radio telecommunication network. When cell-level location information for a mobile station (1) changes due to a handover, the location information is transmitted toward a packet core network (9) by adding the information to userplane packet headers such as a GPRS Tunneling Protocol (GTP) header (26). The measurement device measures the cell-level location information at a level (15b) in the network where the information from a plurality of mobile stations (1) is aggregated, together with PDP context information prior to analyzing information for the entire network.